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A B S T R A C T
O F T H E
P R E M I U M S
O F F E R E D B Y T H E
S O C I E T Y
I N S T I T U T E D A T L O N D O N F O R T H E
E N C O U R A G E M E N T O F A R T S ,
M A N U F A C T U R E S A N D
C O M M E R C E .



LONDON: PRINTED BY ORDER OF THE
SOCIETY, BY THOMAS WILKINS,
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MDCCLXXXIV.

ADELPHI, June 5, 1784.

The second Volume of the Transactions of this SOCIETY being now published, may be had at their House in the Adelphi, or of the principal Booksellers in England and Wales; in which Book will be found the Particulars of each Premium, inserted in the following Abstract, and the Methods to be pursued by those who intend to become Candidates; together with many Papers communicated to the SOCIETY, in the several Branches of Arts Manufactures and Commerce, which are the immediate Objects of their Attention and Encouragement.

To the P U B L I C.

THE CHIEF OBJECTS of the Attention of the SOCIETY, in the Application of their REWARDS, are all such useful Inventions, Discoveries, or Improvements, (though not mentioned in the Book of Premiums) as appear to have a Tendency to promote useful Arts, Manufactures and Commerce, in this Kingdom; and in Pursuance of this Plan, the Society have already been enabled, by the Voluntary Subscriptions of its Members, and by Benefactions of the Nobility and Gentry, to expend for such useful Purposes, a Sum amounting to *upwards of Thirty Thousand Pounds*.

Whoever attentively considers the Benefits which have arisen to the Publick since the Institution of this Society, by the Introduction of new Manufactures, and the Improvement of those formerly established, will readily allow, no Money was ever more usefully expended, nor has any Nation received more real Advantage, from any public Body whatever, than has been derived to this Country, from the Rewards bestowed by this Society; and this Observation will be confirmed by inspecting a general Account of the Effects of the Rewards bestowed by the Society, annexed to a Work, in Folio, printed in 1778, entitled, “A Register of the Premiums and Bounties given by the Society, instituted at *London*, for the Encouragement of Arts, Manufactures and Commerce, from the Original Institution in 1754, to 1776 inclusive;” which Work is sent to every Member on his Election

tion, and may be seen by any Person, applying to the Secretary, or other Officers of the Society, at their House in the *Adelphi*

In order further to promote the laudable Views of this Institution, and to enable the Society to prosecute to greater Effect, the Work so successfully begun, it may not be improper to inform the Publick, by what Mode, and on what Terms, Members are elected.—The Name, with the Addition and Place of Abode of the Person proposing to become a Member, is to be delivered to the Secretary, who is to read the same, and properly insert the Name in a List of Candidates, to be hung up in the Society's Room, until the next meeting, at which such Persons shall be ballotted for; and if Two-thirds of the Members then voting, shall ballot in his Favour, he shall be deemed a perpetual Member, upon Payment of *Twenty Guineas* at one Payment, or a Subscribing Member, upon Payment of any Sum not less than *Two Guineas* Annually.—Every Member is equally intitled to vote, and be concerned in all the Transactions of the Society. The ordinary Meetings are held every *Wednesday*, at Six o'Clock in the Evening, from the Fourth *Wednesday* in *October* to the first *Wednesday* in *June*.

Premiums for Planting and Husbandry.

CLASS.

1. **ACORNS.** For setting ten acres, between October, 1783, and January, 1784; the gold medal.

2. For five acres, the silver medal.

Certificates to be produced, on the first Tuesday in November, 1784.

3. *Raising Oaks.* Not fewer than five thousand, from plants, or acorns, in woods, that have been long under timber, the gold medal.

4. For three thousand; the silver medal.

Certificates to be produced on the first Tuesday in January, 1788,

7. *Spanish Chesnuts.* For setting six acres, before May, 1784, the gold medal.

8. For four acres; the silver medal.

9. For two acres; the silver medal.

Certificates to be delivered on the first Tuesday in November, 1784.

13. *English Elm.* For eight thousand, planted between June, 1783, and June, 1784, the gold medal.

14. For five thousand; the silver medal.

15. For four thousand; the silver medal.

Certificates to be delivered on the first Tuesday in November, 1784.

19. *Red Virginia Cedar.* For planting from June, 1783, to June, 1784, three thousand, between two and four years old, the gold medal.

20. For two thousand; the silver medal.

Certificates to be produced on the last Tuesday in November, 1784.

21. *Larch.* For planting, from June, 1783, to June, 1784, five thousand; to be between two and four years old, the gold medal.

22. For three thousand; the silver medal.

Certificates to be delivered on the last Tuesday in November, 1784.

25. *Utility of Larch.* For the most satisfactory account of the utility of Larch for timber; the gold medal.

The accounts to be produced on the second Tuesday in December, 1784.

26. *Hunt-*

6 A G R I C U L T U R E.

26. *Huntingdon Willow*. For three acres planted in the year 1785, at least one thousand cuttings on each acre, the gold medal.

Certificates to be produced on the last Tuesday in December, 1785.

27. *Occidental plane trees*. For two acres, planted in 1784, with not less than five hundred on each acre, the gold medal.

Certificates to be produced on the last Tuesday in December, 1784.

28. *Alder*. For six acres, planted in the year 1783, at least one thousand on each acre, the gold medal.

Certificates to be produced on the last Tuesday in December, 1784.

30. *Upland or Red Willow*. For not less than three acres planted before the end of April, 1784, twelve hundred on each acre; the gold medal.

Certificates to be produced on the last Tuesday in April, 1785.

32. *Ash*. For not less than six acres planted, in the year, 1784, the plants to be two years old, and the number on each acre at least twelve hundred; the gold medal.

33. For not less than four acres; the silver medal.

Certificates to be delivered on the second Tuesday in March, 1785.

36. *Lombardy or Po Poplar*. For planting in the year 1783, six acres with twelve hundred plants on each acre; the gold medal.

Certificates to be produced on the second Tuesday in November, 1784.

37. *Mixed Timber Trees*. For enclosing, planting, or sowing ten acres, with Forest Trees, for timber, between October, 1784, and May 1786; the gold medal.

Certificates to be produced on the first Tuesday in November, 1788.

* * * The Candidates for planting all kinds of Trees, are to certify, that the respective plantations are properly fenced and secured, and particularly to state the condition the plants were in at the time of signing such *Certificates*.

Any information which the Candidates for the foregoing premiums may chuse to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

38. *Trees for use when exposed to the weather.* For the best account, to determine which of the following trees is of the greatest utility for timber, when exposed to the weather, viz.

Larch, Black Poplar, Ash, Spanish Chesnut, Willow, Alder, Lombardy Poplar, the gold medal.

To be produced on the second Tuesday in December, 1784.

40. *Preserving Acorns.* For most effectual method of preserving Acorns, when sown, from being injured by Mice; the gold medal.

The Accounts to be produced on the last Tuesday in November, 1784.

41. *For Preserving Chesnuts, and Seeds of other Forest Trees.* the silver medal.

The Accounts to be produced on the last Tuesday in November, 1784.

45. *Planting boggy or morassy soils.* For the best experiments to ascertain the advantages of planting boggy or morassy soils, the gold medal.

49. *Roots of Corn.* For ascertaining the succession of the different Roots of Corn, particularly those which shoot out near the time the plants go into ear; the gold medal.

To be produced on the first Tuesday in January, 1785.

51. *Comparative culture of Wheat.* For the best experiments on the Culture of Wheat, by sowing it in the common broad-cast way, by drilling it, or by dibbling, the gold medal.

The Account to be produced on the first Tuesday in February, 1785.

53. *Beans and Wheat.* For planting or drilling in the year 1783, thirty acres, with beans, and for sowing the same land with Wheat in the same year; the gold medal.

Certificates to be produced on the first Tuesday in November, 1784.

54. *Turneps.* For experiments made on six acres, to determine the comparative advantages of the drill, or broad-cast method in the cultivation of Turneps; the gold medal.

To be delivered on the third Tuesday in April, 1785.

56. *Green vegetable Food.* For the best account of vegetable Food, that will most encrease the milk in mares, cows, and ewes, in March and April, the gold medal.

Certificates to be produced on the second Tuesday in November, 1784.

58. *Turnep rooted Cabbage.* For raising, in the year 1783, not less than ten acres, and for an Account of the effects on cattle or sheep, fed with it; the gold medal.

59. For not less than five acres; the silver medal.

Certificates to be produced on the last Tuesday in October, 1785.

61. *Turnep rooted Cabbage.* For raising in the year 1783, the greatest quantity, per acre, of Turnep-rooted Cabbage, the gold medal.

Certificates to be produced on the first Tuesday in November, 1784.

63. *Cultivating Roots and Herbage for feeding sheep, and black cattie.* For experiments made on two acres of land, between Michaelmas, 1785, and May, 1786, to ascertain which of the following plants can be secured for winter fodder, to the greatest advantage, viz.

Turnep-rooted Cabbage, Carrots, Turnep Cabbage, Parsneps, Turneps, Potatoes.

The Accounts to be produced on the first of November, 1786; the gold medal.

64. *Managing Bees.* For the most satisfactory account of managing Bees to the greatest advantage in this climate; the gold medal.

To be produced on the second Tuesday in January, 1785.

65. *Cultivating the true Rhubarb.* For raising, in the year 1784, not less than three hundred plants, of the true Rhubarb; the gold medal.

66. For two hundred plants; the silver medal.

Certificates to be produced on the second Tuesday in February, 1785.

71. *Rhubarb.* For Rhubarb of British growth, twenty pounds weight, the gold medal.

Certificates and five pounds weight to be produced on the first Tuesday in November, 1784.

72. For ten pounds weight, the silver medal.

75. *Ascertaining the component parts of Arable Land.* For the most satisfactory experiments, to ascertain the due proportion of the several component parts of Arable Land, by an accurate analysis of it, the gold medal.

The Accounts to be produced on the last Tuesday in November, 1788.

78. *Improving Land lying waste.* For a method of improving soils, lying waste or uncultivated, the gold medal.

The Accounts to be produced on the second Tuesday in December, 1784, the gold medal.

79. For the next, in merit the silver medal.

84. *Manures.* For the best account, on what soil the application of Marle, Chalk, Lime, or Clay, as manures, be most beneficial; the gold medal.

The

The Account to be delivered, on the first Tuesday in January, 1785.

87. *Manures*. For the best set of experiments, to ascertain the comparative advantage of Soot, Coal-Ashes, Wood-Ashes, Lime, or Night-Soil; the gold medal.

The Account to be produced on the first Tuesday in December, 1787.

88. *Ascertaining the best course of Crops on Clay Soil*. For the best account, to ascertain the course of Crops, which shall during eight years, prove most profitable, on a Clay Soil; the gold medal, or fifty pounds.

The Account to be delivered on the first Tuesday in January, 1786.

89. *Course of Crops on Strong Land*. For the best account, to ascertain the advantages of the following course of Crops, First, Beans drilled, or planted and hoed; Secondly, Wheat; the gold medal.

Certificates to be produced on the last Tuesday in March, 1788.

90. *Improving waste Moors*. For the improvement of not less than one hundred acres of waste Moor Land, the gold medal.

Certificates to be produced on the first Tuesday in February, 1785.

93. *Gaining Land from the Sea*. For an account of the best method, of gaining from the Sea, not less than twenty acres of Land, the gold medal.

Certificates to be produced on the first Tuesday in October, 1785.

97. *Drill Plough for Horse Beans*. For the best Drill Plough for Horse Beans only; to be produced on the first Tuesday in January, 1785; the silver medal, or ten guineas.

98. *Machine to reap, or mow Corn*. For a machine to reap, or mow Grain by which it may be done cheaper, than by any method now practised, the gold medal.

The Machine, with *Certificates* to be produced on the second Tuesday in December, 1784.

99. *Curing Scab in Sheep*. For discovering a method of curing the Scab in Sheep, the silver medal, or ten guineas.

Certificates to be delivered on the second Tuesday in January, 1785.

*Premiums for Discoveries and Improvements in Chemistry,
Dying, and Mineralogy.*

100. *Kelp.* For four tons of Kelp, containing much more Alkaline Salt than any now made for sale; twenty pounds.

One hundred weight, to be produced on the first Tuesday in January, 1785.

101. *Barilla.* For half a ton of merchantable Barilla, made from Spanish Kali, raised in Great-Britain; the gold medal.

Twenty-eight pounds, with a *Certificate*, to be produced on the first Tuesday in January, 1785.

102. *Native Fossil Fixt Alkali from the East-Indies.* For importing in the year 1784, half a ton of the Native Fossil Fixt Alkali, the produce of the East-Indies; the gold medal, or thirty pounds.

Fifty pounds weight, to be produced on the last Tuesday in January, 1785.

103. *Preserving Seeds of Vegetables.* For a method of preserving the Seeds of plants fit for vegetation, to be communicated on the first Tuesday in December, 1784; the gold medal.

104. *Destroying Smoke.* For an account of a method of destroying the smoke of fires belonging to large works, to be produced on the first Tuesday in January, 1785; the gold medal.

105. *Substitute or Preparation of Yeast.* For discovering a Substitute for, or Preparation of Yeast, that may be preserved for use, the gold medal, or twenty pounds.

Specimens to be produced on the last Tuesday in November, 1784.

106. *Increasing Steam.* For a method, of increasing the quantity, or the force of Steam, in Steam Engines, with less fuel than is now employed: the gold medal.

To be communicated on the first Tuesday in January, 1785.

108. *Method of Comparing Sweets.* For discovering a practicable method of ascertaining the degrees of Sweetness in Saccharine Substances; the gold medal.

To be produced on the first Tuesday in January, 1785.

109. *Preventing the Dry Rot in Timber.* For discovering the cause of the Dry Rot in Timber, and disclosing a method of prevention; the gold medal.

The accounts to be produced on the second Tuesday in December, 1785.

110. *Bronze for Copper Medals.* For discovering a method of bronzing Copper Medals, equal to the French; the gold medal.

To be produced on the second Tuesday in December, 1784.

Premiums

Premiums for promoting the Polite Arts.

111. *Honorary Premiums for Drawings.* For the best drawing by sons or grandsons of Peers, or Peereſſes, of Great-Britain or Ireland; to be produced on the first Tuesday in March, 1785; the gold medal.

112. For the second in merit; the silver medal.

113, 114. The same premiums will be given to daughters, or grand-daughters, of Peers or Peereſſes, of Great-Britain or Ireland.

115. *Honorary Premiums for Drawings.* For the best drawings of any kind, by young gentlemen under the age of twenty-one.

To be produced on the first Tuesday in March, 1785; the gold medal.

116. For the next in merit; the silver medal.

117, 118. The same premiums will be given for drawings by young ladies.

N. B. Persons professing any branch of the Polite Arts, or the sons or daughters of such persons, will not be admitted candidates in these classes.

119. *Drawings in Architecture.* For a drawing of the buildings in the Adelphi, occupied by the Society; A silver medallion in Conformity to the Will of John Stock, of Hampstead, Esq.

To be produced on the third Tuesday in October, 1784.

120. *Drawings of Outlines.* For an Outline after a group or cast in plaster of human figures, by persons under the age of sixteen, to be produced on the last Tuesday in October, 1784; the greater silver pallet.

121. For the next in merit; the lesser silver pallet.

122. *Drawings after Pictures.* For a drawing after a Picture of human figures, by persons under the age of sixteen; to be produced on the last Tuesday in October, 1784; the greater silver pallet.

123. For the next in merit; the lesser silver pallet.

124. *Drawings of Machines.* For the best drawing by persons under the age of twenty-one years, of a machine in the Society's Repository; the greater silver pallet; to be produced on the third Tuesday in October, 1784.

125. *Drawings of Beasts.* For the best drawing of three or more beasts after nature, by persons under the age of eighteen years; to be produced on the third Tuesday in October, 1784; the greater silver pallet.

126. For the next in merit; the lesser silver pallet.

127. Draw-

127. *Drawings of Birds.* For the best drawing after nature of three different birds, by persons under the age of eighteen years; to be produced on the third Tuesday in October, 1784; the greater silver pallet.

128. For the next in merit; the lesser silver pallet.

129. *Drawings of Fruit, Flowers, or Plants.* For the best drawing after nature, by persons under the age of sixteen; to be produced on the third Tuesday in October, 1784; the greater silver pallet.

130. For the next in merit; the lesser silver pallet.

131. *Drawings of Landscapes.* For the best drawing after nature, by persons under twenty-one years of age, to be produced on the third Tuesday in October, 1784; the greater silver pallet.

132. For the next in merit; the lesser silver pallet.

133. *Historical Drawings.* For the best original Historical Drawing, of five or more human figures; to be produced on the first Tuesday in February, 1785; the gold pallet.

134. For the next in merit; the greater silver pallet.

To Masters of Academies or Schools.

135. To the master of any Academy, or school for boys, not more than thirty miles from London, who shall teach at least four scholars to write, and to speak Latin, correctly and fluently; the gold medal.

Also the gold medal for teaching each of the following languages, viz. the German, the Spanish, and the Italian.

Notice of the claim to be sent to the Society, on the second Tuesday in November, 1786.

To the Scholar who is the greatest proficient in each of the said languages, the silver medal.

Premiums for encouraging and improving Manufactures.

136. *Silk*. For five pounds of Silk, produced by one person in England, in the year 1784; the gold medal.

One pound, with *Certificates*; to be delivered to the Society on the first Tuesday in January, 1785.

137. For two pounds; the silver medal.

138. *Mulberry Cuttings*. For raising not less than three hundred Mulberry Trees; the gold medal.

Certificates to be produced on the first Tuesday in November, 1784.

140. *Mulberry Cuttings*. For not less than one acre, of Mulberry Cuttings, planted for the purpose of feeding Silk Worms; the gold medal.

Certificates that the Plants are only three feet asunder to be produced on the first Tuesday in December, 1784.

142. *Machine for Carding Silk*. For a machine, for carding waste Silk; to be produced on the first Tuesday in November, 1784; the gold medal or twenty pounds,

143. *Weaving Fishing Nets*. For the best specimen of netting, for Fishing Nets, twenty yards long, and six feet deep, woven in a machine; to be produced on the second Tuesday in January, 1785; twenty guineas.

144. *Paper for Copper Plates*. For establishing in England or Wales, a manufacture of paper, equal to the paper imported from France, proper for impressions of engraved copper-plates; the gold medal.

One ream, to be produced on the first Tuesday in January, 1785.

Premiums for Inventions in Mechanicks.

145. *Transit Instrument.* For a cheap and portable Transit Instrument, for the purposes of finding the latitudes and longitudes of places; the gold medal; to be produced on the last Tuesday in January, 1785.

146. *Gun Harpoon.* For every Whale taken by the Gun Harpoon; to the person who first strikes such fish therewith; two guineas.

N. B. *Certificates* of the taking such Whales, in the year 1784; to be delivered on the last Tuesday in December, 1784.

147. *Gun for throwing Harpoons.* To the person who shall produce the best Gun for throwing Harpoons; the silver medal, or ten guineas.

To be delivered on the first Tuesday in December, 1784.

148. *Harpoon to be thrown by a Gun.* To the person who shall produce the best Harpoon to be thrown by a Gun; the silver medal, or ten guineas.

To be delivered on the first Tuesday in December, 1784.

149. *Machine for Transporting Timber.* For a model of the best Machine for Transporting Timber, on soft or clayey roads; to be sent in on the last Tuesday in November, 1784; twenty guineas.

150. *Improvement of the Hand Ventilator.* For a portable Ventilator, to be worked by hand, better than any now in use; the gold medal.

To be produced on the last Tuesday in February 1785.

151. *Engine for Working Looms.* For an Engine to work at one time, three Looms; the gold medal, or thirty guineas.

Certificates with samples, to be produced on the first Tuesday in January, 1785.

152. *Cranes for Wharfs.* For a model of a Crane for Wharfs, superior to any in use; the gold medal, or twenty guineas.

To be produced on the first Tuesday in February, 1785.

153. *Carriage to convey Engines for extinguishing Fires.* For a Machine or Carriage for conveying Engines for extinguishing Fires better than any now in use; the gold medal.

To be produced on the last Tuesday in January, 1785.

154. *Machine for clearing Rivers.* For the best Model of a Machine, superior to any now in use, for Clearing Navigable Rivers from Weeds, at the least expense; ten guineas.

To be produced on the first Tuesday in February, 1785.

Premiums

Premiums offered for the Advantage of the British Colonies.

155. *Nutmegs.* For five pounds weight of Nutmegs, the growth of his Majesty's dominions in the West-Indies; the gold medal or one hundred pounds.

Certificates to be produced on the first Tuesday in January, 1785.

157, 158. *Bread Fruit Tree.* For the greatest number of plants of one or both species of the Bread Fruit Tree, in a growing state not less than three of either species; the gold medal.

To be produced before the fifteenth of August, 1785.

161. *Oil from Cotton Seed.* For one ton of Oil and five hundred weight of Cake from the seed of Cotton; the gold medal.

Certificates to be produced, with two gallons of Oil and two dozen of cakes, on the last Tuesday in November, 1785.

165. *Spirit from the Pulp of the Coffee Berry.* For distilling thirty gallons of Spirit from the Pulp of the Coffee Berry, and producing one gallon of the Spirit, the gold medal.

166. For fifteen gallons; the silver medal.

Certificates to be delivered on the first Tuesday in January, 1786.

167. *Senna.* For two hundred weight, imported in 1786, the growth of any of the British Islands in the West Indies, the gold medal.

Certificates to be produced on the first Tuesday in February, 1787.

✎ It is required, that the matters for which Premiums are offered, be delivered in without names, or any intimation to whom they belong; that each particular thing be marked in what manner each claimant thinks fit, such claimant sending with it a paper sealed up, having on the outside a corresponding mark, and on the inside the claimant's name and address.

